

## CTR Employer Survey Report

Thank you for completing your Commute Trip Reduction survey. This report contains the survey results.

**Employer Id :** E80374

**Participation :** CTR

**Employer :** The Boeing Company

**Status :** Affected

**Worksite :** The Boeing Company - Plant 2/North Boeing Field (NBF)

**Survey Type :** Online

**Street :** 7755 East Marginal Way S

**Response Rate :** 53%

**Jurisdiction :** City of Tukwila

**Survey Date :** 5/1/2018

### Non-Drive Alone & One-Way VMT Rates at this Worksite

**Non-Drive Alone Rate :** 19.5%

**Drive Alone Rate :** 80.5%

**One-Way VMT per employee :** 18.2

**Average One-Way distance home to work :** 21.9

### Employees and Survey Response Information

**Reported Total Employees at Worksite:** 3,767

**Surveys Distributed :** 1,636

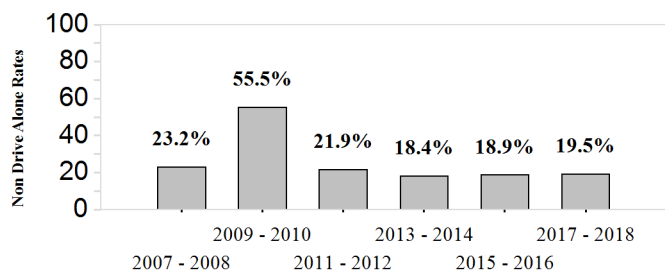
**Surveys Returned :** 874

**Surveys Returned by CTR Affected\* Employees :** 739

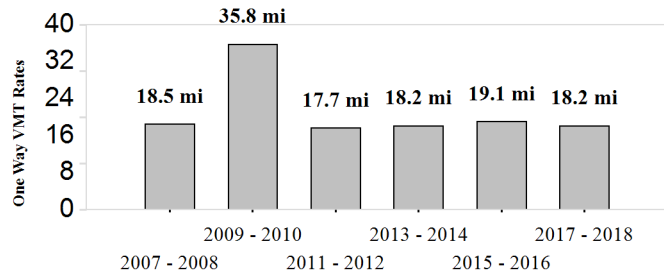
**Total Estimated CTR Affected Employees at Worksite :** 1,383

*\*CTR Affected employees filled out the survey as being full-time and commuting (typically) to work at least twice between 6a and 9a, Monday through Friday.*

#### Non Drive Alone Rates - ALL Employees



#### One Way VMT per Employee - ALL Employees



**Site History and Targets**
**Annual Metric Tons CO<sub>2</sub>e Pounds CO<sub>2</sub>e**

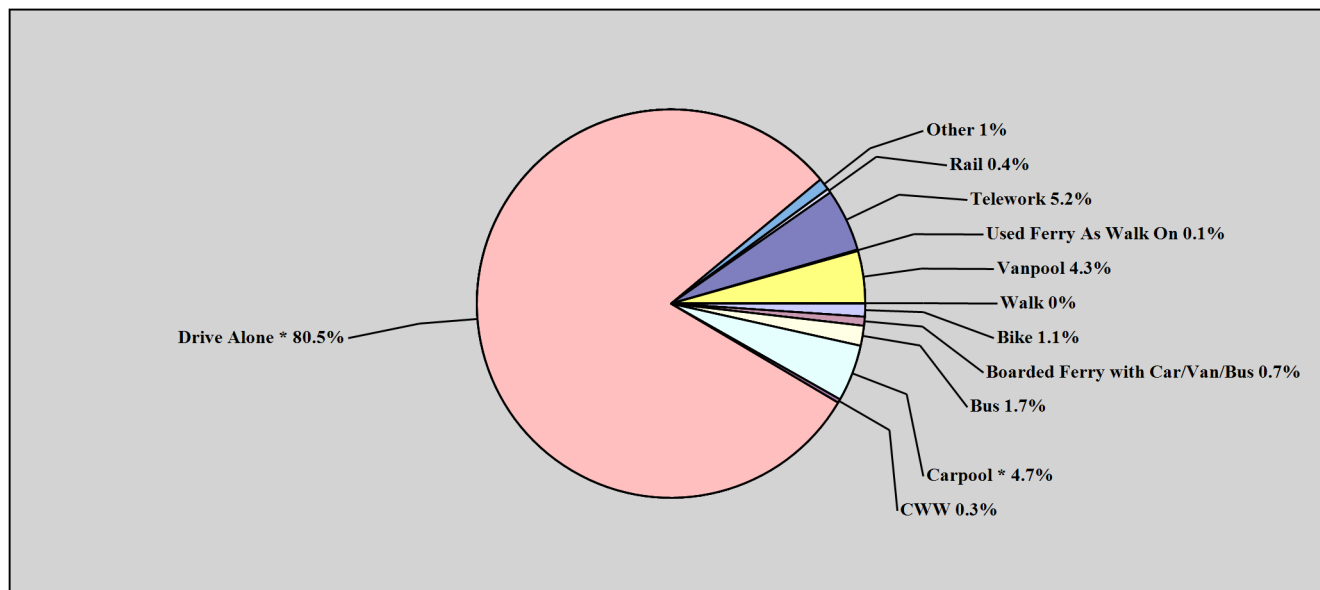
Cycle	Non Drive Alone Rate - All	Non Drive Alone Rate - CTR Affected	Emissions for Surveyed Employees	Estimated Emissions for Total Employment	GHG per Employee's Roundtrip	VMT per Employee - All	VMT per Employee - CTR Affected
2007 - 2008	23.2%	24.2%	10043	18561	43.4	18.5	17.0
2009 - 2010	29.0%	29.0%	7039	20201	47.3	18.1	18.1
2009 - 2010	26.5%	27.5%	5212	12604	29.5	17.7	16.7
2011 - 2012	21.9%	23.0%	2321	17926	42.0	17.7	16.7
2013 - 2014	18.4%	17.8%	3977	19647	46.0	18.2	17.2
2015 - 2016	18.9%	18.7%	4459	16678	39.0	19.1	17.3
2017 - 2018	19.5%	20.3%	3454	14889	34.9	18.2	17.5
Target	27.1%				Target:	13.9	
% Point Change Target:	3.9				% Change Target:	-24.9%	
% Point Change from Baseline:	-3.7				% Change from Baseline:	-1.6%	

GHG calculations are based on VMT and estimated total round-trip commutes for all employees. Modes that contribute to GHG include driving alone, carpooling, vanpooling, and riding a motorcycle. The use of other modes (e.g., transit, rail, walking, ferry) do not increase a worksite's GHG calculation. For more information about how GHG is calculated, please contact your jurisdiction's representative.

## Commute Trips By Mode - All Employees

Q.4: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - All Employees



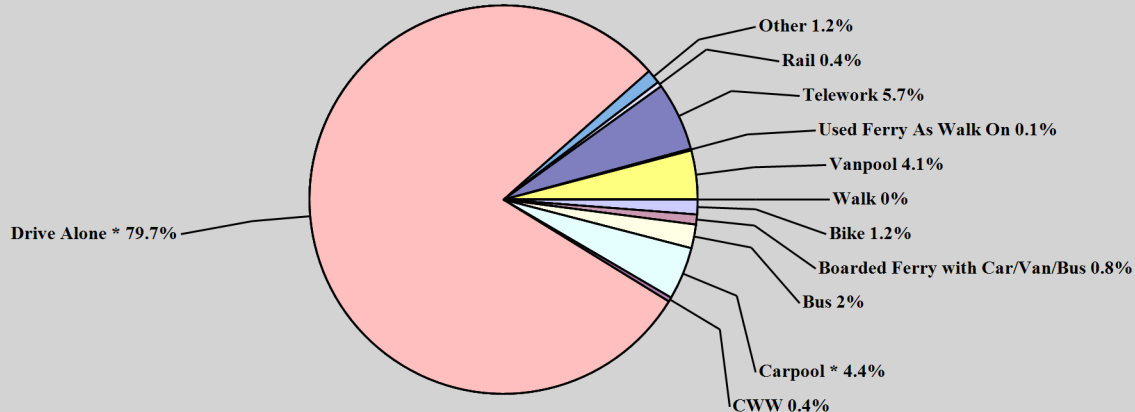
Mode	Trips During This Survey	% of Trips During This Survey	% of Trips During Previous Survey	Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During Previous Survey
Drive Alone *	3,441	80.5%	81.1%	773	88.4%	90.6%
Carpool *	202	4.7%	5.7%	59	6.8%	8.2%
Vanpool	185	4.3%	4.8%	41	4.7%	5.6%
Bus	71	1.7%	1.2%	21	2.4%	1.8%
Rail	15	0.4%	0.5%	5	0.6%	0.8%
Bike	46	1.1%	0.8%	15	1.7%	1.9%
Walk	2	0.0%	0.1%	1	0.1%	0.2%
Telework	223	5.2%	3.5%	144	16.5%	12.0%
CWW	13	0.3%	0.5%	10	1.1%	1.5%
Boarded Ferry with Car/Van/Bus	32	0.7%	0.7%	10	1.1%	1.0%
Used Ferry As Walk On	5	0.1%	0.1%	1	0.1%	0.2%
Other	42	1.0%	1.1%	15	1.7%	1.7%

\* Motorcycle-1 is now included in Drive Alone and Motorcycle-2 is included in Carpool. Information about these trips is still available by request.

## Commute Trips By Mode - Affected Employees

Q.4: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - CTR Affected Employees



Mode	Trips During This Survey	% of Trips During This Survey	% of Trips During Previous Survey	Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During Previous Survey
Drive Alone *	2,868	79.7%	81.3%	649	87.8%	90.7%
Carpool *	158	4.4%	5.2%	50	6.8%	8.1%
Vanpool	147	4.1%	4.2%	33	4.5%	4.8%
Bus	71	2.0%	1.4%	21	2.8%	2.1%
Rail	15	0.4%	0.5%	5	0.7%	0.8%
Bike	44	1.2%	1.0%	14	1.9%	2.2%
Walk	0	0.0%	0.0%	0	0.0%	0.1%
Telework	205	5.7%	4.2%	130	17.6%	14.3%
CWW	13	0.4%	0.3%	10	1.4%	1.2%
Boarded Ferry with Car/Van/Bus	30	0.8%	0.9%	8	1.1%	1.2%
Used Ferry As Walk On	5	0.1%	0.1%	1	0.1%	0.2%
Other	42	1.2%	0.8%	15	2.0%	1.5%

\* Motorcycle-1 is now included in Drive Alone and Motorcycle-2 is included in Carpool. Information about these trips is still available by request.

**Alternative Modes - Number of Employees Who Used a Non-Drive Alone Mode:**

Non-Drive Alone Number Of Days	Exactly this # of Employees	Exactly this % of Employees	At least # of Employees	At least % of employees
<b>0 Day</b>	594	68%	874	100%
<b>1 Days</b>	99	11%	280	32%
<b>2 Days</b>	31	4%	181	21%
<b>3 Days</b>	29	3%	150	17%
<b>4 Days</b>	31	4%	121	14%
<b>5 Days</b>	80	9%	90	10%
<b>6 or More Days</b>	10	1%	10	1%

**Count by Occupancy of Carpools and Vanpools**

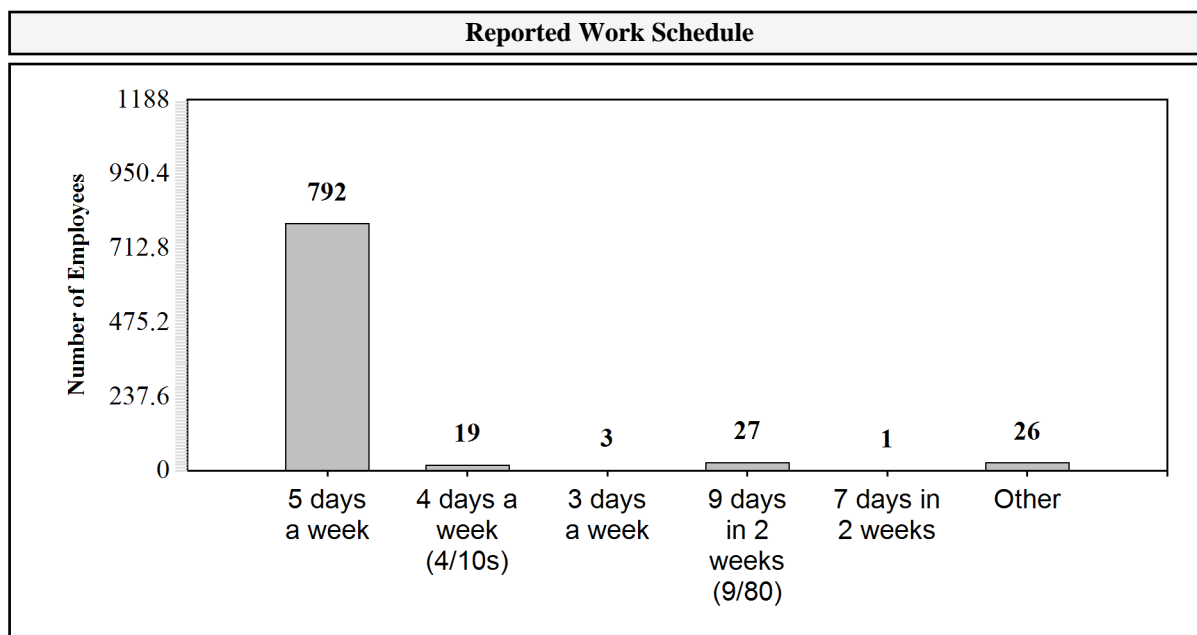
Q.5 If you used a carpool or vanpool as part of your commute, how many people (age 16 or older) are usually in the vehicle?

Ridesharing Occupancy	Mode	Response Count
<b>2*</b>	Carpool	197
<b>3</b>	Carpool	0
<b>4</b>	Carpool	0
<b>5</b>	Carpool	0
<b>&gt;5</b>	Carpool	5
<b>&lt;5</b>	Vanpool	23
<b>5</b>	Vanpool	11
<b>6</b>	Vanpool	19
<b>7</b>	Vanpool	23
<b>8</b>	Vanpool	40
<b>9</b>	Vanpool	35
<b>10</b>	Vanpool	19
<b>11</b>	Vanpool	0
<b>12</b>	Vanpool	10
<b>13</b>	Vanpool	5
<b>14</b>	Vanpool	0
<b>&gt;14</b>	Vanpool	0

\* Motorcycle-2 counted with Carpool-2 for this table.

## Reported Work Schedule - All Employees

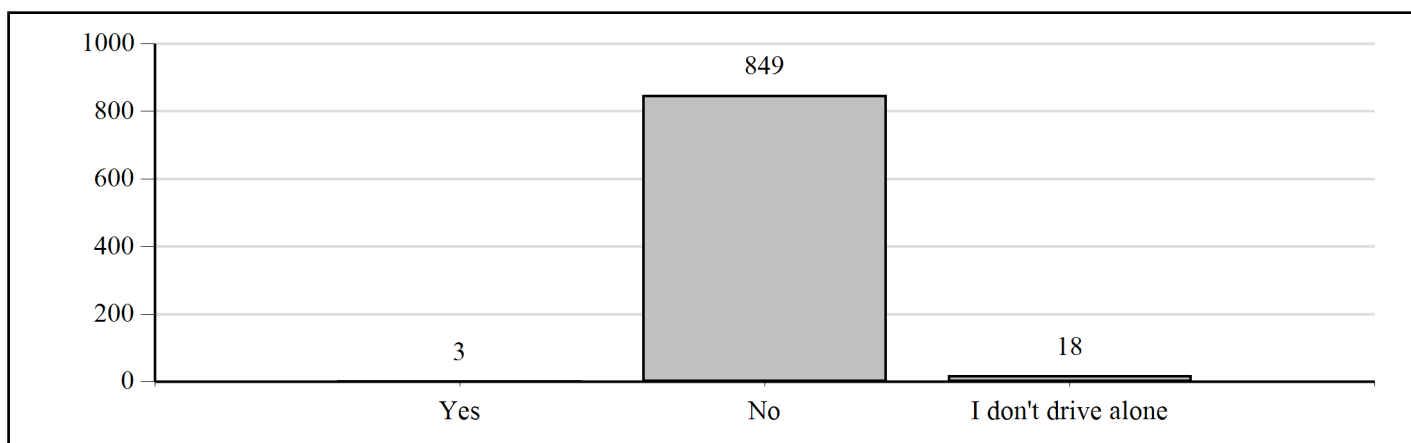
Q.8 Which of the following best describes your work schedule?



Reported Work Schedule	# Of Responses	% Of Employees
5 days a week	792	91.2%
4 days a week (4/10s)	19	2.2%
3 days a week	3	0.3%
9 days in 2 weeks (9/80)	27	3.1%
7 days in 2 weeks	1	0.1%
Other	26	3%

## Parking and Telework

**Q.9: On the most recent day that you drove alone to work, did you pay to park? (Mark "yes" if you paid that day, if you prepaid, if you are billed later, or if the cost of parking is deducted from your paycheck.)**



**Q.10: How many days do you typically telework?**

Telework Frequency	# of Responses	% of Responses
No Answer/Blank	3	0.3%
I don't telework	375	42.9%
Occasionally, on an as-needed basis	307	35.1%
1-2 days/month	55	6.3%
1 day/week	98	11.2%
2 days/week	19	2.2%
3 days/week	17	1.9%

**Reasons for driving alone to work/not driving alone to work**
**Q11. When you do not drive alone to work, what are the three most important reasons?**

Question Text	# of Responses	% of Responses
I have the option of teleworking	288	17.8%
To save money	216	13.3%
To save time using the HOV lane	203	12.5%
Personal health or well-being	176	10.9%
Other	151	9.3%
Environmental and community benefits	148	9.1%
Free or subsidized bus, train, vanpool pass or fare benefit	121	7.5%
Financial incentives for carpooling, bicycling or walking.	108	6.7%
Driving myself is not an option	73	4.5%
Emergency ride home is provided	58	3.6%
Cost of parking or lack of parking	36	2.2%
Preferred/reserved carpool/vanpool parking is provided	34	2.1%
I receive a financial incentive for giving up my parking space	8	0.5%

**Q12. When you drive alone to work, what are the three most important reasons?**

Question Text	# of Responses	% of Responses
Riding the bus or train is inconvenient or takes too long	650	30.2%
I like the convenience of having my car	535	24.8%
Family care or similar obligations	295	13.7%
Other	217	10.1%
Bicycling or walking isn't safe	141	6.5%
My job requires me to use my car for work	135	6.3%
My commute distance is too short	119	5.5%
I need more information on alternative modes	56	2.6%
There isn't any secure or covered bicycle parking	5	0.2%



## Commute Mode By ZipCode for All Employees

Q6. What is your home zip code?

Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98058	30	3.43%	136	5	0	0	0	0	0	0	1	3	0	0	0
98038	27	3.09%	115	1	0	5	0	0	0	0	15	1	0	0	0
98042	27	3.09%	108	9	0	0	0	0	0	0	11	0	0	0	0
98059	26	2.97%	109	6	0	0	0	0	0	0	10	0	0	0	7
98023	24	2.75%	97	6	5	0	0	1	0	0	3	1	0	0	4
98031	23	2.63%	103	0	0	1	0	0	0	0	4	0	0	0	3
98056	22	2.52%	92	8	0	0	0	0	0	0	3	1	0	0	0
98027	17	1.95%	76	1	0	0	0	0	0	0	4	0	0	0	3
98092	17	1.95%	75	0	5	0	0	0	0	0	5	0	0	0	0
98012	16	1.83%	41	8	16	0	0	0	0	0	13	1	0	0	0
98116	16	1.83%	73	0	0	0	8	0	2	0	1	0	0	0	0
98166	16	1.83%	70	0	0	1	0	0	0	0	4	0	0	0	0
98006	15	1.72%	44	13	0	0	4	0	0	0	9	0	0	0	0
98103	15	1.72%	59	0	5	0	2	0	0	0	7	0	0	0	0
98374	15	1.72%	52	3	10	0	0	8	0	0	4	0	0	0	0
98001	14	1.60%	53	7	0	0	0	0	0	0	2	0	0	0	5
98034	14	1.60%	60	0	0	0	0	0	0	0	1	0	0	0	0
98168	14	1.60%	68	0	0	0	0	0	2	0	0	0	0	0	0
98032	13	1.49%	51	0	0	2	0	0	4	0	7	0	0	0	0
98055	13	1.49%	62	0	0	0	4	0	0	0	2	0	0	0	0
98208	13	1.49%	52	6	5	0	0	0	0	0	1	0	0	0	1
98391	13	1.49%	56	4	5	0	0	0	0	2	0	0	0	0	0
98075	12	1.37%	52	8	0	0	0	0	0	0	1	0	0	0	0
98126	11	1.26%	42	0	0	0	0	0	9	0	1	0	0	0	0
98003	10	1.14%	41	0	0	3	0	0	0	0	6	0	0	0	0
98136	10	1.14%	47	0	0	0	0	0	0	0	1	0	0	0	0



Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98146	10	1.14%	48	4	0	0	0	0	0	0	0	0	0	0	0
98275	10	1.14%	23	5	16	0	0	0	0	0	2	1	0	0	0
98199	9	1.03%	27	5	0	0	1	0	5	0	2	0	0	0	0
98422	9	1.03%	37	0	4	2	0	0	1	0	0	0	0	0	0
98002	8	0.92%	34	0	0	5	5	0	0	0	0	0	0	0	0
98115	8	0.92%	35	0	0	0	3	0	0	0	2	0	0	0	0
98178	8	0.92%	24	0	0	0	3	0	0	0	3	0	0	0	0
98007	7	0.80%	28	0	0	0	0	0	0	0	0	0	0	0	0
98074	7	0.80%	28	0	0	0	0	0	0	0	8	0	0	0	0
98107	7	0.80%	35	0	0	0	0	0	0	0	0	0	0	0	0
98177	7	0.80%	30	0	0	0	0	0	0	0	5	0	0	0	0
98198	7	0.80%	32	0	0	0	0	0	0	0	2	1	0	0	0
98321	7	0.80%	27	0	5	0	0	0	0	0	0	0	0	0	0
98372	7	0.80%	22	1	5	0	0	2	0	0	3	0	0	0	0
98004	6	0.69%	21	0	0	1	0	0	8	0	0	0	0	0	0
98008	6	0.69%	25	0	0	0	0	0	0	0	1	0	0	0	2
98028	6	0.69%	26	2	0	0	0	0	0	0	2	0	0	0	0
98030	6	0.69%	30	0	0	0	0	0	0	0	0	0	0	0	0
98033	6	0.69%	24	0	0	0	5	0	0	0	1	0	0	0	0
98037	6	0.69%	21	0	5	0	0	0	0	0	1	0	0	0	0
98105	6	0.69%	19	3	0	0	0	0	2	0	7	0	0	0	0
98106	6	0.69%	24	0	0	2	0	0	3	0	1	0	0	0	0
98110	6	0.69%	2	0	5	5	1	0	4	0	0	0	11	0	4
98117	6	0.69%	25	1	0	0	0	0	1	0	0	0	0	0	0
98121	6	0.69%	19	1	0	0	6	0	0	0	0	0	0	0	0
98125	6	0.69%	27	0	0	0	0	0	0	0	3	0	0	0	0
98133	6	0.69%	28	0	0	0	3	0	0	0	1	0	0	0	0
98144	6	0.69%	26	0	0	0	0	0	0	0	2	0	0	0	0
98188	6	0.69%	26	0	0	0	5	0	0	0	1	0	0	0	0



Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98203	6	0.69%	15	10	0	0	0	0	0	0	6	0	0	0	0
98367	6	0.69%	13	3	0	0	0	0	0	0	4	0	9	0	1
98375	6	0.69%	21	4	7	0	0	0	0	0	1	0	0	0	0
98406	6	0.69%	20	0	5	0	0	0	0	0	2	2	0	0	0
98010	5	0.57%	18	2	0	0	0	0	0	0	0	0	0	0	0
98022	5	0.57%	21	0	0	0	0	0	0	0	0	0	0	0	0
98026	5	0.57%	24	0	0	0	0	0	0	0	1	0	0	0	0
98051	5	0.57%	24	0	0	0	0	0	0	0	0	0	0	0	0
98052	5	0.57%	23	0	0	0	0	0	0	0	2	0	0	0	0
98057	5	0.57%	10	2	0	0	5	0	0	0	8	1	0	0	0
98072	5	0.57%	22	0	0	0	0	0	0	0	5	0	0	0	0
98108	5	0.57%	20	0	0	0	1	0	2	0	2	0	0	0	0
98155	5	0.57%	15	0	0	0	5	0	0	0	0	0	0	0	0
98029	4	0.46%	15	4	0	0	0	0	0	0	0	0	0	0	0
98036	4	0.46%	7	0	12	0	0	0	0	0	1	0	0	0	0
98045	4	0.46%	10	4	0	0	0	0	0	0	0	0	0	0	0
98109	4	0.46%	11	5	0	0	4	0	0	0	0	0	0	0	0
98118	4	0.46%	19	0	0	0	0	0	0	0	1	0	0	0	0
98119	4	0.46%	12	0	0	0	5	0	0	0	2	0	0	0	0
98270	4	0.46%	6	7	4	5	0	0	0	0	1	0	0	0	0
98296	4	0.46%	18	0	0	0	0	0	0	0	1	0	0	0	0
98335	4	0.46%	14	0	4	0	0	0	0	0	1	0	0	0	0
98338	4	0.46%	10	5	5	0	0	0	0	0	0	0	0	0	0
98371	4	0.46%	14	3	0	0	0	0	0	0	2	0	0	0	0
98407	4	0.46%	7	11	0	0	0	0	0	0	0	0	0	0	0
98024	3	0.34%	13	0	0	0	0	0	0	0	1	0	0	0	0
98040	3	0.34%	13	0	0	0	0	0	0	0	2	0	0	0	0
98065	3	0.34%	15	0	0	0	0	0	0	0	0	0	0	0	0
98077	3	0.34%	15	0	0	0	0	0	0	0	0	0	0	0	0



Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98087	3	0.34%	15	0	0	0	0	0	0	0	1	0	0	0	0
98102	3	0.34%	15	0	0	0	0	0	0	0	0	0	0	0	0
98122	3	0.34%	10	0	0	0	0	0	3	0	1	0	0	0	0
98204	3	0.34%	12	0	4	0	0	0	0	0	1	0	0	0	0
98258	3	0.34%	6	4	0	0	0	0	0	0	0	0	0	0	0
98272	3	0.34%	10	0	5	0	0	0	0	0	0	0	0	0	0
98354	3	0.34%	12	0	4	0	0	0	0	0	1	0	0	0	0
98390	3	0.34%	8	0	5	0	0	0	0	0	0	0	0	0	0
98445	3	0.34%	10	0	5	1	0	0	0	0	0	0	0	0	0
98513	3	0.34%	12	0	0	0	0	0	0	0	0	0	0	0	0
	2	0.23%	10	0	0	1	0	0	0	0	0	0	1	0	0
98005	2	0.23%	10	0	0	0	0	0	0	0	0	0	0	0	0
98011	2	0.23%	9	0	0	0	0	0	0	0	1	0	0	0	0
98043	2	0.23%	10	0	0	0	0	0	0	0	0	0	0	0	0
98070	2	0.23%	2	0	0	3	0	0	0	0	0	0	5	0	0
98104	2	0.23%	10	0	0	0	0	0	0	0	0	0	0	0	0
98112	2	0.23%	10	0	0	0	0	0	0	0	0	0	0	0	0
98201	2	0.23%	10	0	0	0	0	0	0	0	1	0	0	0	0
98271	2	0.23%	7	0	5	0	0	0	0	0	0	0	0	0	0
98284	2	0.23%	2	3	0	0	0	0	0	0	0	0	0	0	0
98290	2	0.23%	12	0	0	0	0	0	0	0	0	0	0	0	0
98332	2	0.23%	8	0	0	0	0	0	0	0	0	0	0	0	0
98366	2	0.23%	0	0	0	0	0	0	0	0	3	0	0	0	5
98373	2	0.23%	10	0	0	0	0	0	0	0	0	0	0	0	0
98418	2	0.23%	5	0	5	0	0	0	0	0	0	0	0	0	0
98424	2	0.23%	4	4	0	0	0	0	0	0	1	0	0	0	1
98446	2	0.23%	7	0	5	0	0	0	0	0	0	0	0	0	0
98466	2	0.23%	5	0	0	5	0	0	0	0	0	0	0	0	0
98498	2	0.23%	6	0	0	0	0	4	0	0	0	0	0	0	0



Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98499	2	0.23%	6	0	0	0	0	0	0	0	3	0	0	0	0
98922	2	0.23%	5	5	0	0	0	0	0	0	0	0	0	0	0
89027	1	0.11%	5	0	0	0	0	0	0	0	0	0	0	0	0
98014	1	0.11%	5	0	0	0	0	0	0	0	0	0	0	0	0
98021	1	0.11%	0	0	6	0	0	0	0	0	0	0	0	0	0
98053	1	0.11%	5	0	0	0	0	0	0	0	0	0	0	0	0
98093	1	0.11%	4	0	0	0	0	0	0	0	1	0	0	0	0
98223	1	0.11%	0	0	0	0	0	0	0	0	0	0	0	0	5
98249	1	0.11%	5	0	0	0	0	0	0	0	0	0	0	0	0
98253	1	0.11%	3	1	0	0	1	0	0	0	0	0	0	0	0
98274	1	0.11%	5	0	0	0	0	0	0	0	0	0	0	0	0
98292	1	0.11%	0	0	3	0	0	0	0	0	2	0	0	0	0
98293	1	0.11%	5	0	0	0	0	0	0	0	0	0	0	0	0
98303	1	0.11%	4	0	0	0	0	0	0	0	1	0	0	0	0
98311	1	0.11%	0	0	0	0	0	0	0	0	0	0	0	5	0
98327	1	0.11%	0	7	0	0	0	0	0	0	0	0	0	0	0
98328	1	0.11%	5	0	0	0	0	0	0	0	0	0	0	0	0
98329	1	0.11%	5	0	0	0	0	0	0	0	0	0	1	0	0
98333	1	0.11%	2	0	0	0	0	0	0	0	0	0	0	0	0
98360	1	0.11%	0	7	0	0	0	0	0	0	0	0	0	0	0
98370	1	0.11%	0	0	0	0	0	0	0	0	0	0	5	0	0
98388	1	0.11%	0	0	5	0	0	0	0	0	0	0	0	0	0
98403	1	0.11%	1	4	0	0	0	0	0	0	0	0	0	0	0
98405	1	0.11%	4	0	0	0	0	0	0	0	0	0	0	0	1
98443	1	0.11%	5	0	0	0	0	0	0	0	0	0	0	0	0
98444	1	0.11%	5	0	0	0	0	0	0	0	0	0	0	0	0
98506	1	0.11%	2	0	5	0	0	0	0	0	0	0	0	0	0
98516	1	0.11%	4	0	0	0	0	0	0	0	0	0	0	0	0
98576	1	0.11%	4	0	0	0	0	0	0	0	0	1	0	0	0



Weekly Count of Trips By Mode															
Home Zip code	Total Employees	Employee Percentage	Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98672	1	0.11%	5	0	0	0	0	0	0	0	0	0	0	0	0
98801	1	0.11%	7	0	0	0	0	0	0	0	0	0	0	0	0